

International Organization for Medical Physics



# Radiation Protection Culture and IOMP



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- The head of the department wants that any patient coming to his facility should have confidence that he/she is going to get radiation dose lower than reference level and lowest dose while maintaining the diagnostic confidence




Example of a system in  
place for patient  
protection  
=Culture

**Similar situation about staff protection**

# What does it include for Medical Physicist

- BSS requirements
- Training of medical staff
- Equipment QC testing
- Dose evaluations 
- Risk estimations and communication
- Protocol optimizations
- Periodic and regular monitoring of doses
- Creating and monitoring of the system of dose and quality management

Culture>>>

TRUST  safety

# Numerous situation of RP



## Radiation-induced Skin Injuries from Fluoroscopy

Taken from [US FDA website](#).



Condition of patient's back eight weeks following fluoroscopy



Appearance of skin injury approximately 18 to 21 months following procedures, evidencing tissue necrosis.



Close-up view of lesion shown in the middle photo



- **Medical Physicists are best informed about principles of radiation protection and how to apply them in day-to-day practice**



- I have this patient who has undergone 5 CT scans already in the last 6 months. I need to decide about another CT scan that I am considering






# Mission of IOMP


IOMP= About **18,000 MP in 80 countries**

To advance medical physics practice worldwide

by:

- **Disseminating** scientific and technical information, 
- **Fostering** the educational and professional development of medical physicists, and
- **Promoting** the highest quality medical services for patients.

# OBJECTIVES of IOMP

- **Organise** international cooperation in medical physics
- **Promote** communication between medical physics and allied subjects 
- **Advance** medical physics in all aspects
- **Support** national organisations



# IOMP OFFICERS: 2012-2015

**President**  
Dr. Kin-Yin Cheung



**Vice President**  
Dr Slavik Tabakov  
President, 2015-  
2018



**Secretary-General**  
Dr. Madan Rehani  
Vice President Elect  
(2015-2018)



**Treasurer**  
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**Past President**  
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# IOMP CHAIRS: 2012-2015

## Professional Relations

Dr. Raymond Wu



## Education and Training

Dr. John Damilakis



## Science

Dr Geoffrey Ibbott



## Publications

Prof. Tae Suk Suh



## Awards and Honors

Dr Tomas Kron




## Medical Physics

### World Board

Dr Virginia Tsapaki



# Regional Organisations

- **EFOMP:** Europe
- **ALFIM:** Latin America
- **AFOMP:** Asia-Oceania
- **SEAFOMP:**  South East Asia
- **MEFOMP:** Middle East
- **FAMPO:** Africa

# For deliberation ?

1. If RPC is part of RSC (radiation safety culture), then what is the problem in using RSC which is easier to pronounce and is more in line with commonly used terms
2. Safety culture is applicable to hospitals and management can be easily motivated to it. Is there example of another medical subject using specialized nomenclature of safety or protection (e.g. infection, or even equipment safety by engineers)?



# Thank You



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